

FORM PTO-1449
(REV. 7-80)ATTY. DOCKET NO.
DUK96-03pA3SERIAL NO.
08/796,164INFORMATION DISCLOSURE CITATION
IN AN APPLICATIONAPPLICANT
Jonathan S. Stamler et al.FILING DATE
February 6, 1997GROUP
1811

(See several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
M	AA	5,385,937	01-31-95	Stamler et al.	514	557	02-21-92
	AB	5,380,758	01-10-95	Stamler et al.	514	562	09-14-92
	AC	5,405,919	04-11-95	Keefer et al.	525	377	08-24-92
	AD	5,574,068	11-12-96	Stamler et al.	514	562	11-14-94
	AE	4,900,719	02-13-90	Means et al.	514	18	08-05-88
	AF	5,593,876	01-14-97	Stamler et al.	435	188	08-09-94
	AG	5,480,866	01-02-96	Bonaventura et al.	514	6	01-18-94
M	AH	5,427,797	06-27-95	Frostell et al.	424	434	04-06-93

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
M	AL	WO 96/16645	06-JUN-96	PCT			
	AM	WO 96/15797	30-MAY-96	PCT			
	AN	WO 96/17604	13-JUN-96	PCT			
	AO	WO 93/09806	27-MAY-93	PCT			
	AP	WO 93/12068	24-JUN-93	PCT			
A	AQ	WO 94/22499	13-OCT-94	PCT			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Stamler, Jonathan S. et al., "S-Nitrosylation of Proteins with Nitric Oxide: Synthesis and Characterization of Biologically Active Compounds," <i>Proc. Natl. Acad. Sci. USA</i> , 89:444-448 (1992).
	AS	Langford, E.J. et al., "Inhibition of Platelet Activity by S-Nitrosoglutathione During Coronary Angioplasty," <i>The Lancet</i> , 344:1458-1460 (1994).
	AT	Simon, Daniel I. et al., "Polynitrosylated Proteins: Characterization, Bioactivity, and Functional Consequences," <i>Proc. Natl. Acad. Sci. USA</i> , 93:4736-4741 (1996).

EXAMINER



B. Celsa


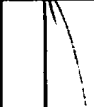



DATE CONSIDERED


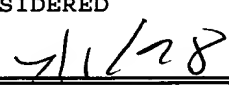
7/1/98




FORM PTO-1449 (REV. 7-80) INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)				ATTY. DOCKET NO. DUK96-03pA3		SERIAL NO. 08/796,164	
				APPLICANT Jonathan S. Stamler et al.			
				FILING DATE February 6, 1997		GROUP 1811	

U.S. PATENT DOCUMENTS							
EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
	AL2	WO 94/22482	13-OCT-94	PCT			
	AM2	WO 94/22306	13-OCT-94	PCT			
	AN2	WO 96/30006	03-OCT-96	PCT			
	AO2	WO 95/07691	23-MAR-95	PCT			
	AP2	WO 96/03139	08-FEB-96	PCT			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
	AU Doyle, Michael P. et al., "Structural Effects in Alkyl Nitrite Oxidation of Human Hemoglobin," <i>Journal of Biological Chemistry</i> , 259(1):80-87 (1984).
	AV Shah, N.S. et al., "Efficiency of Inhaled Nitric Oxide in a Porcine Model of Adult Respiratory Distress Syndrome," <i>Archives of Surgery</i> , 129(2):158-164 (1994).
	AW Kukovetz, W.R. et al., "Cellular Mechanism of Action of Therapeutic Nitric Oxide Donors," <i>European Heart Journal</i> , 12 (Suppl. E):16-24 (1991).
	AX Greenburg, A.G and Kim, H.W., "Nitrosyl Hemoglobin Formation In Vivo After Intravenous Administration of a Hemoglobin-Based Oxygen Carrier in Endotoxemic Rats," <i>Artif. Cells, Blood Substitutes, Immobilization Biotechnol.</i> , 23(3):271-276 (1995).
	AY Clancy, Robert M. et al., "Use of Thionitrobenzoic Acid to Characterize the Stability of Nitric Oxide in Aqueous Solutions and in Porcine Aortic Endothelial Cell Suspensions," <i>Anal. Biochem.</i> , 191(1):138-143 (1990).

EXAMINER 	DATE CONSIDERED 
---	---

FORM PTO-1449 (REV. 7-80)		ATTY. DOCKET NO. DUK96-03pA3	SERIAL NO. 08/796,164
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		APPLICANT Jonathan S. Stamler et al.	
		FILING DATE February 6, 1997	GROUP 1811
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	AZ	Charache, S. et al., "Evaluation of Extracorporeal Alkylation of Red Cells as a Potential Treatment for Sickle Cell Anemia," <i>Blood</i> , 47(3):481-488 (1976).	
	AR2	Wheeler, G.P. et al., "Anti-Sickling Activity of Nitrosoureas," <i>Biochem. Biophys. Res. Comm.</i> 54(3):1024-1029 (1973).	
	AS2	Clancy, Robert M. al., "Nitric Oxide Reacts with Intracellular Glutathione and Activates the Hexose Monophosphate Shunt in Human Neutrophils: Evidence for S-Nitrosoglutathione as a Bioactive Intermediary," <i>Proc. Natl. Acad. Sci. USA</i> , 91:3680-3684 (1994).	
	AT2	Stamler, Jonathan S., "Redox Signaling: Nitrosylation and Related Target Interactions of Nitric Oxide," <i>Cell</i> , 78:931-936 (1994).	
	AU2	Arnelle, Derrick R. and Stamler, Jonathan S., "NO ⁺ , NO [•] , and NO ⁻ Donation by S-Nitrosothiols: Implications for Regulation of Physiological Functions by S-Nitrosylation and Acceleration of Disulfide Formation," <i>Archives of Biochemistry and Biophysics</i> , 318(2):279-285 (1995).	
	AV2	Kondo, T. et al., "Thiol Transport from Human Red Blood Cells," <i>Methods in Enzymology</i> , 252:72-82 (1995).	
	AW2	Jia, Li et al., "S-Nitrosohaemoglobin: A Dynamic Activity of Blood Involved in Vascular Control," <i>Nature</i> , 380:221-226 (1996).	
	AX2	Ignarro, Louis J. et al., "Mechanism of Vascular Smooth Muscle Relaxation by Organic Nitrates, Nitrites, Nitroprusside and Nitric Oxide: Evidence for the Involvement of S-Nitrosothiols as Active Intermediates," <i>The Journal of Pharmacology and Experimental Therapeutics</i> , 218(3):739-749 (1981).	
	AY2	Ribeiro, José M.C. et al., "Reversible Binding of Nitric Oxide by a Salivary Heme Protein from a Bloodsucking Insect," <i>Science</i> , 260: 539-541 (1993).	
	AZ2	Simon, Daniel I. et al., "Effect of Nitric Oxide Synthase Inhibition on Bleeding Time in Humans," <i>Journal of Cardiovascular Pharmacology</i> , 26:339-342 (1995).	
EXAMINER 		DATE CONSIDERED 7/1/98	

FORM PTO-1449 (REV. 7-80) INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)				ATTY. DOCKET NO. DUK96-03pA3		SERIAL NO. 08/796,164	
				APPLICANT Jonathan S. Stamler et al.			
				FILING DATE February 6, 1997		GROUP 1811	
U.S. PATENT DOCUMENTS							
EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AR3	Radomski, Marek W. et al., "S-Nitroso-Glutathione Inhibits Platelet Activation In Vitro and In Vivo," <i>Br. J. Pharmacol.</i> , 107:745-749 (1992).					
	AS3	Scharfstein, Jonathan S. et al., "In Vivo Transfer of Nitric Oxide Between a Plasma Protein-Bound Reservoir and Low Molecular Weight Thiols," <i>J. Clin. Invest.</i> , 94:1432-1439 (1994).					
	AT3	Kosaka, H. et al., "ESR Spectral Transition by Arteriovenous Cycle in Nitric Oxide Hemoglobin of Cytokine-Treated Rats," <i>Am. J. Physiol.</i> , 266(5):1400-1405 (1994).					
	AU3	Kruszyna, R. et al., "Generation of Valency Hybrids and Nitrosylated Species of Hemoglobin in Mice by Nitric Oxide Vasodilators," <i>Toxicol. Appl. Pharmacol.</i> , 94(3):458-465 (1988).					
	AV3	Freedman, Jane E. et al., "Glutathione Peroxidase Potentiates the Inhibition of Platelet Function by S-Nitrosothiols," <i>J. Clin. Invest.</i> , 96:394-400 (1995).					
	AW3	Feelisch, M. and Stamler, J.S., "Donors of Nitrogen Oxides," <i>Methods In Nitric Oxide Research</i> , John Wiley & Sons Ltd. (1996).					
	AX3	Stamler, J.S. and Feelisch, M., "Preparation and Detection of S-Nitrosothiols," <i>Methods In Nitric Oxide Research</i> , John Wiley & Sons Ltd. (1996).					
EXAMINER 				DATE CONSIDERED 			

[illegible]

FORM PTO-1449
(REV. 7-80)INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

ATTY. DOCKET NO.
DUK96-03pA3SERIAL NO.
08/796,164APPLICANT
Jonathan S. Stamler et al.FILING DATE
February 6, 1997GROUP
1811

U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE APPROPRIATE IF
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
ML	AQ2	WO 97/37644	16-OCT-97	PCT		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

ML	AY3	Sharma, Vijay S. and Ranney, Helen M., "The Dissociation of NO from Nitrosylhemoglobin," <i>The Journal of Biological Chemistry</i> , 253(18):6467-6472 (1978).
BK	AZ3	Moore, Edwin G. and Gibson, Quentin H., "Cooperativity in the Dissociation of Nitric Oxide from Hemoglobin," <i>The Journal of Biological Chemistry</i> , 251(9):2788-2794 (1976).
BL	AR4	Khartitonov, V.G., et al., "Interactions of Nitric Oxide with Heme Proteins Using UV-VIS Spectroscopy," <i>Methods in Nitric Oxide Research</i> , pages 39-45, Edited by Martin Feelisch and Jonathan S. Stamler, John Wiley & Sons Ltd. (1996).

EXAMINER

B. versa

DATE CONSIDERED

7/1/98

FORM PTO-1449 (REV. 7-80)			ATTY. DOCKET NO. DUK96-03pA3		SERIAL NO. 08/796,164	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)			APPLICANT Jonahtan S. Stamler et al.			
			FILING DATE February 6, 1997		GROUP 1811	
U.S. PATENT DOCUMENTS						
EXAM- INER INI- TIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
	AS4	Taketa, Fumito, et al., "Chain Nonequivalence in Binding of Nitric Oxide to Hemoglobin," <i>The Journal of Biological Chemistry</i> , 253(15):5448-5451 (1978).				
	AT4	Henry, Y. and Cassoly, R., "Chain Non-Equivalence in Nitric Oxide Binding to Hemoglobin," <i>Biochemical and Biophysical Research Communications</i> , 51(3):659-665 (1973).				
	AU4	Wennmalm, Å., et al., "Dependence of the Metabolism of Nitric Oxide (NO) in Healthy Human Whole Blood on the Oxygenation of Its Red Cell Haemoglobin," <i>Br. Journal Pharmacol.</i> , 106:507-508 (1992).				
	AV4	Hille, Russ, et al., "Spectral Transitions of Nitrosyl Hemes During Ligand Binding to Hemoglobin," <i>The Journal of Biological Chemistry</i> , 254(23):12110-12120 (1979).				
	AW4	Cassoly, R. and Gibson, Q.H., "Conformation, Co-Operativity and Ligand Binding in Human Hemoglobin," <i>J. Mol. Biol.</i> , 91:301-313 (1975).				
	AX4	Cantilena, Louis R., Jr., et al., "Nitric Oxide Hemoglobin in Patients Receiving Nitroglycerin as Detected by Electron Paramagnetic Resonance Spectroscopy," <i>J. Lab. Clin. Med.</i> , 120(6):902-907 (1992).				
	AY4	Salhany, J.M, et al., "Correlations Between Quaternary Structure and Ligand Dissociation Kinetics for Fully Liganded Hemoglobin," <i>Biochemistry</i> , 14(10):2180-2190 (1975).				
	AZ4	Kruszyna, Harriet, et al., "Red Blood Cells Generate Nitric Oxide From Directly Acting, Nitrogenous Vasodilators," <i>Toxicology and Applied Pharmacology</i> , 91:429-438 (1987).				
EXAMINER B. vers			DATE CONSIDERED 7/1/98			

FORM PTO-1449
(REV. 7-80)ATTY. DOCKET NO.
DUK96-03pA3SERIAL NO.
08/796,164INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

APPLICANT
Jonathan S. Stamler et al.FILING DATE
February 6, 1997GROUP
1811



U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
AL						
AM						
AN						
AO						
AP						
AQ						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR5	Lancaster, Jack R., Jr., "Simulation of the Diffusion and Reaction of Endogenously Produced Nitric Oxide," <i>Proc. Natl. Acad. Sci. USA</i> , 91:8137-8141 (1994).
	AS5	Butler, Anthony R. et al., "NO, Nitrosonium Ions, Nitroxide Ions, Nitrosothiols and Iron-Nitrosyls in Biology: A Chemist's Perspective," <i>TIPS</i> , 16:18-22 (1995).

EXAMINER

B, selso

DATE CONSIDERED

7/1/98

FORM PTO-1449
(REV. 7-80)ATTY. DOCKET NO.
DUK96-03pA3SERIAL NO.
08/796,164INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

APR 03 1998

APPLICANT
Jonathan S. Stamler et al.FILING DATE
February 6, 1997GROUP
1654

U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
AA						
AB						
AC						
AD						

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
AL						
AM						
AN						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

MA	AT5	Wade, Ruth S. and Castro, C.E., "Redox Reactivity of Iron(III) Porphyrins and Heme Proteins with Nitric Oxide: Nitrosyl Transfer to Carbon, Oxygen, Nitrogen and Sulfur," <i>Chem. Res. Toxicol.</i> , 3(4):289-291 (1990).
	AU5	Addison, Anthony W. and Stephanos, Joseph J., "Nitrosyliron(III) Hemoglobin: Autoreduction and Spectroscopy," <i>Biochemistry</i> 25(14):4104-4113 (1986).
	AV5	Perutz, Max F., et al., "Influence of Globin Structures on the State of the Heme: Ferrous Low Spin Derivatives," <i>Biochemistry</i> , 15(2):378-387 (1976).
	AW5	John, Maliyakal E. and Waterman, Michael R., "Structural Basis for the Conformational States of Nitrosyl Hemoglobins M Saskatoon and M Milwaukee," <i>The Journal of Biological Chemistry</i> , 255(10):4501-4506 (1980).
11	AX5	Trittelvitz, Eberhard and Gersonde, Klaus, "Electron-Spin Resonance of Nitrosyl Haemoglobins: Normal α and β Chains and Mutants Hb M Iwate and Hb Zürich," <i>Eur. J. Biochem.</i> , 51:33-42 (1975).

EXAMINER

B. vers A

DATE CONSIDERED

7/1/98